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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/891,726	06/26/2001	Juha M. Heikkila	872.0043.USU 1368		
29683 7	7590 07/28/2005		EXAM	EXAMINER	
HARRINGTON & SMITH, LLP 4 RESEARCH DRIVE			NGUYEN,	NGUYEN, DUNG X	
	CT 06484-6212		ART UNIT	PAPER NUMBER	
			2638		

DATE MAILED: 07/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Summan.	09/891,726	HEIKKILA, JUHA M.			
Office Action Summary	Examiner	Art Unit			
	Dung X. Nguyen	2631			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the (correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware	This action is FINAL . 2b)⊠ This action is non-final.				
Disposition of Claims		•			
 4) Claim(s) 1 - 8 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1 - 3 and 5 - 8 is/are rejected. 7) Claim(s) 4 is/are objected to. 8) Claim(s) are subject to restriction and/o 	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on 24 September 2001 is/a	10)⊠ The drawing(s) filed on <u>24 September 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat ity documents have been receiv I (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/08/04.		Patent Application (PTO-152)			

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Response to Arguments

1. Applicant's arguments filed on 09 February 2005 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of new found reference(s).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 5, 6, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brerstler (US paten application publication # 2002/0085657 A1), and further in view of Harrirson (US patent # 6,781,419 B2).

Regarding claim 1, Boerstler discloses (figure 8):

- An input node for receiving the clock signal (14); and
- An output node for outputting a process clock signal (16) having a first edge that is synchronized to an edge of the clock signal (page 1, paragraph # 0014).

Broerstler differs from the instant claimed invention that it does not show the step of a second edge that is varied so as to provide a predetermined processed clock signal duty cycle.

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However, Harrison discloses (figure 1) that a second edge that is varied so as to provide a predetermined processed clock signal duty cycle (column 2, lines 15 - 19 and column 3, lines 24 - 27).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Broerstler and Harrison as providing the requirements of the instant claimed invention for latching the signals in symmetrical (column 1, lines 36 - 40 of Harrison).

Regarding claim 2, as followed by the limitations analyzed in claim 1, Harrison further discloses the predetermined duty cycle is a nominally 50-50 duty cycle (column 2, lines 15 - 19 and column 1, lines 58 - 63) for latching the signals in symmetrical (column 1, lines 36 - 40 of Harrison).

Regarding claim 5, the limitations are analyzed in the same manner set forth as claim 1.

Regarding claim 6, as followed by the limitations analyzed in claim 5, the limitations are analyzed in the same manner set forth as claim 2.

Regarding claim 8, as followed by the limitations analyzed in claim 5, Boerstler further discloses wherein the first edge of the processed clock signal is a rising edge that is synchronize to a rising edge of the clock signal (page 1, paragraph # 0014) for defining edges of multiphase clock signals being most closely aligned with an edge of the data stream (page 1, second column, lines 61 - 65).

4. Claims 3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brerstler (US paten application publication # 2002/0085657 A1), Harrirson (US patent # 6,781,419 B2), and further in view of James M. Clark (US patent # 3,629,712).

Regarding claim 3, as followed by the limitations analyzed in claim 1, Broerstler and Harrison differ from the instant claimed invention that they do not disclose the step of wherein the output node being coupled to a baseband circuitry of a wireless communication terminal.

However, James M. Clark discloses (figure1) that wherein the output node being coupled to a baseband circuitry of a wireless communication terminal (column 2, lines 60 - 62) inherently of a wireless communication terminal (because the PCM baseband signal is applied from source (3) to sharper (4) and sharper (4) is a device of wireless communication terminal).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Broerstler's teaching, Harrison's teaching, and James M. Clark's teaching as providing the requirements of the instant claimed invention for controlling the duty cycle of an output clock signal independently of the duty of an input clock signal in a wireless communication terminal.

Regarding claim 7, as followed by the limitations analyzed in claim 5, the limitations are analyzed in the same manner set forth as claim 3.

Allowable Subject Matter

4. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung X. Nguyen whose telephone number is (571) 272-3010. The examiner can normally be reached on Monday through Friday from 8:00 AM to 17:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Vanderpuye, Kenneth N. can be reached on (571) 272-3078. The fax phone numbers for this group is (571) 273-3021.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

DXN

July 22, 2005

KENNETH VANDERPUYE PRIMARY EXAMINER